

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,040,557 B2
APPLICATION NO. : 10/816124
DATED : May 9, 2006
INVENTOR(S) : William Graham et al.

Page 1 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Abstract, line 14, "...couples to an axel rotating the airflow generator..." change to -- couples to an axle rotating the airflow generator --

Column 1, line 29, "...Breaking up solids and grinding it into powder..." change to -- Breaking up solids and grinding them into powder --

Column 2, line 3, "...is a plan view illustrating a plan view of the pulverizing..." change to -- is a plan view illustrating the pulverizing --

Column 2, line 9, "...is cross-sectional view of a venturi..." change to -- is a cross-sectional view of a venturi --

Column 2, line 42, "...a cross-sectional view an alternative embodiment of..." change to -- a cross-sectional view of an alternative embodiment of... --

Column 2, line 46, "...of an housing, axel, and balancer;..." change to -- of an housing, axle, and balancer; --

Column 2, line 60, "...internal balancer disposed within an axel; FIG. 28 is..." change to -- internal balancer disposed within an axle; FIG. 28 is --

Column 4, line 5, "...couples to an axel 33 using known methods. The axel 33..." change to -- couples to an axle 33 using known methods. The axle 33 --

Column 5, line 14, "...the granulization of the material. Non-polymerized..." change to -- the granulation of the material. Non-polymerized --

Column 5, line 60, "...appreciate that the dimension are for..." change to -- appreciate that the dimensions are for --

Column 6, line 46, "...with a diameter of 20 um in one..." change to -- with a diameter of 20 μ m in one --

Column 6, line 64, "...total colifrom, faecal colifrom, *escherichia coli*, and other..." change to -- total coliform, fecal coliform, *escherichia coli*, and other --

Column 8, lines 4, "...angle \forall may approximately 25 degrees..." change to -- angle α may be approximately 25 degrees --

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Column 8, line 9, "...angle V may be adjusted to increase or decrease the..."
change to -- angle α may be adjusted to increase or decrease the --

Column 8, line 24, "...where it is discharged through an air lock 126 and into..."
change to -- where they are discharged through an air lock 126 and into --

Column 9, line 65, "...performed by the cyclone 114. If pulverized..." change to
-- performed by the cyclone 114. If pulverized --

Column 10, line 20, "...the air velocity. Variance of the throat diameter..."
change to -- the air velocity. Variation of the throat diameter --

Column 11, line 34, "...inlet tubes 12,412 and the venturis..." change to -- inlet
tubes 12, 412 and the venturis --

Column 11, line 66, "...apparatus, such as a filter, be used. Flow control..."
change to -- apparatus, such as a filter, may be used. Flow control --

Column 12, lines 42, 43, "...inconsistent surfaces and heat effected areas due to
heat effected zones. The cast..." change to -- inconsistent surfaces and heat-affected
areas due to heat-affected zones. The cast --

Column 12, lines 64, 65, 66 "...includes a concentrically disposed axel aperture
508. As the name suggests, the axel aperture 508 receives and engages an axel or
spindle to power..." change to -- includes a concentrically disposed axle aperture 508.
As the name suggests, the axle aperture 508 receives and engages an axle or spindle to
power --

Column 13, line 5, "...disposed concentrically around the axel aperture..."
change to -- disposed concentrically around the axle aperture --

Column 13, line 7, "...a corresponding axel bolt (not shown) that are each
coupled to an axel. The..." change to -- a corresponding axle bolt (not shown) that are
each coupled to an axle. The --

Column 13, line 28, "...that may enter between the housing 500 and the
airflow generator..." change to -- that may enter between the housing and the airflow
generator --

Column 13, line 29, "...housing and the airflow generator 200." change to
-- housing and the airflow generator 500. --

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Column 13, line 30-38, "...Referring to FIG. 12, a cross-sectional view of the axel aperture 508 is shown. The axel aperture 508 receives an axel, shaft, spindle, or other member to rotate the airflow generator 500. The bolt apertures 509 each receive an axel bolt to secure the back plate 506. In this embodiment, an axel transitions from a first diameter, with axel bolts extending, to a second diameter suitable for insertion into the axel aperture 508. The bolt aperture 509 may each provide a well 513 to receive a nut that engages an axel bolt." change to -- Referring to FIG. 12, a cross-sectional view of the axle aperture 508 is shown. The axle aperture 508 receives an axle, shaft, spindle, or other member to rotate the airflow generator 500. The bolt apertures 509 each receive an axle bolt to secure the back plate 506. In this embodiment, an axle transitions from a first diameter, with axle bolts extending, to a second diameter suitable for insertion into the axle aperture 508. The bolt apertures 509 may each provide a well 513 to receive a nut that engages an axle bolt --

Column 13, line 38, "...each provide a well 513 to receive a nut that..." change to -- each provide a well 515 to receive a nut that --

Column 13, line 46, "...adjacent the axel aperture 508. The blade..." change to -- adjacent the axle aperture 508. The blade --

Column 13, line 60, "...advantageously allow variance in three dimensions and allows..." change to -- advantageously allow variation in three dimensions and allows... --

Column 13, line 60, "...variation in three dimensions and allows any number..." change to -- variation in three dimensions and allow any number --

Column 15, line 41, "...the counter-clockwise position and the blades 510 would..." change to -- the counter-clockwise direction and the blades 510 would --

Column 15, line 44, "...from 350 mph or greater and directs air and pulverized material..." change to -- from 350 mph or greater and direct air and pulverized material --

Column 16, line 11, "...exhaust pipe 112, and first and second cyclones 116, 406. The system..." change to -- exhaust pipe 112, and first and second cyclones 114, 406. The system --

Column 16, line 28, "...second cyclones 116, 406 may extend out of the..." change to -- second cyclones 114, 406 may extend out of the --

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Column 16, line 30, "...cyclones 116, 406 may be removed entirely or partially..." change to -- cyclones 114, 406 may be removed entirely or partially --

Column 18, lines 24-31, "...34 and axel 33 adjacent the backslide 704 of the housing 35. The motor 34 engages a pulley 1002 that engages the axel 33 to effect high speed rotation of the axel 33. The axel 33, also referred to as a spindle, couples to one or more brackets 1004 to secure the axel 33 and fix its rotation. The brackets 1004 are secured to a mounting plate 1006. The pulley 1002 is shown engaging axel 33 between two brackets 1004, although the pulley 1002 may engage the axel 33 in other..." change to -- 34 and axle 33 adjacent the backslide 704 of the housing 35. The motor 34 engages a pulley 1002 that engages the axle 33 to effect high speed rotation of the axle 33. The axle 33, also referred to as a spindle, couples to one or more brackets 1004 to secure the axle 33 and fix its rotation. The brackets 1004 are secured to a mounting plate 1006. The pulley 1002 is shown engaging axle 33 between two brackets 1004, although the pulley 1002 may engage the axle 33 in other --

Column 18, line 43, "...state for unbalance in the axel 33 and the airflow generator..." change to -- state for unbalance in the axle 33 and the airflow. --

Column 18, line 44, "...32 as the axel spins at working RPM..." change to -- 32 as the axle spins at working RPM --

Column 18, line 58, "...proximate end 1016 of the axel 33. The axel 33 couples at..." change to -- proximate end 1016 of the axle 33. The axle 33 couples at --

Column 18, line 61, "...to the axel 33 proximate to the backside 704, also..." change to -- to the axle 33 proximate to the backside 704, also --

Column 18, line 64, "...airflow into the input aperture 508 of the air turbine 32." change to -- airflow into the input aperture 508 of the airflow generator --

Column 18, line 66, "...mass compensation for axel imbalance. In one..." change to -- mass compensation for axle imbalance. In one --

Column 19, line 21, "...is defined as having the axel center 1025. The..." change to -- is defined as having the axle center 1025. The --

Column 19, line 23, "...even if the axel 33 is stopped and..." change to -- even if the axle is stopped and --

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Column 19, line 41, "...external balancer 1010 is coupled to an axel 33 and rotates within a first..." change to -- external balancer 1010 is coupled to an axle 33 and rotates within a first --

Column 19, line 46, "...ends of the axel 33. The weights 1020 within the external..." change to -- ends of the axle 33. The weights 1020 within the external --

Column 19, line 54, "...pulley 1002 couples to the axel 33 between the..." change to -- pulley 1002 couples to the axle 33 between the --

Column 19, line 60, "...Referring to FIG. 25B, a perspective diagram is shown..." change to -- Referring to FIG. 26B, a perspective diagram is shown --

Column 19, line 62, "...and external balancer 1010 couples to..." change to -- and external balancer 1018 couples to --

Column 19, line 65, "...an axel 33 that also couples to the mass..." change to -- an axle 33 that also couples to the mass --

Column 20, line 21, "...nests within the bore of the axel 33. Internal balancers are..." change to -- nests within the bore of the axle 33. Internal balancers are --

Column 20, line 25, "...1042 that bolts to the axel 33 through one or more..." change to -- 1042 that bolts to the axle through one or more --

Column 20, line 27, "...internal balancer 1040 to the axel 33 and are included.." change to -- internal balancer to the axle 33 and are included --

Column 20, line 41, "...internal balancer 1020 is shown. The compensating..." change to -- internal balancer 1040 is shown. The compensating --

Column 20, line 53, "...to an axel 33. Ring balancers are commercially..." change to -- to an axle 33. Ring balancers are commercially --

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Column 21, line 13, "...couple to the axel 33 on the pulley side to avoid..."
change to -- couple to the axle 33 on the pulley side to avoid --

Signed and Sealed this

Eighteenth Day of March, 2008

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS
Director of the United States Patent and Trademark Office